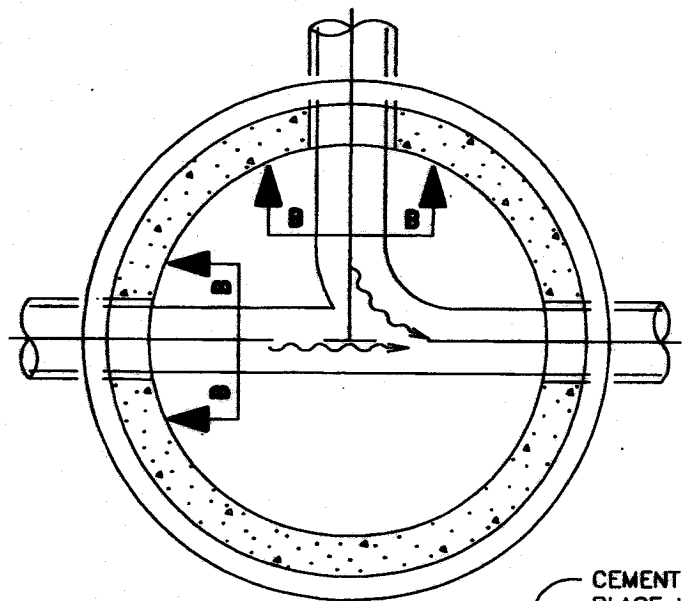INSIDE DIAMETER
OF PIPE

1/4" per FT.

SECTION B-B

NOTES:

1. All joints shall be set in Class C Portland cement mortar and shall be sack finished.

2. Rings and cones shall be reinforced with #4 round steel wound spirally on 4" centers.

3. Vertical wall of cone shall be on downstream side of manhole.

4. Steps shall be 14" wide stirrup type safety steps. The steps or sockets shall be cast in place at time of manufacture. Steps shall be spaced a maximum of 16" c.c.. Material for steps shall be 1/2" grade 60 steel reinforcing rod coated with polypropylene, ASTM D-4101 or City approved equal.

5. The lower portion of the manhole shall be:

Minimum Diameter	Depth (Shelf to cover)
4'	< 15'
5'	>15' and < 25'
6'	>25' and < 30'

A special designed manhole meeting Cal-OSHA specifications will be required for depths greater than 30'.
The frame and cover shall be 3' diameter (Alhambra Foundry: A1251-6 or City approved equal) where the manhole diameter is greater than 4'. A 1' minimum shelf shall be maintained.
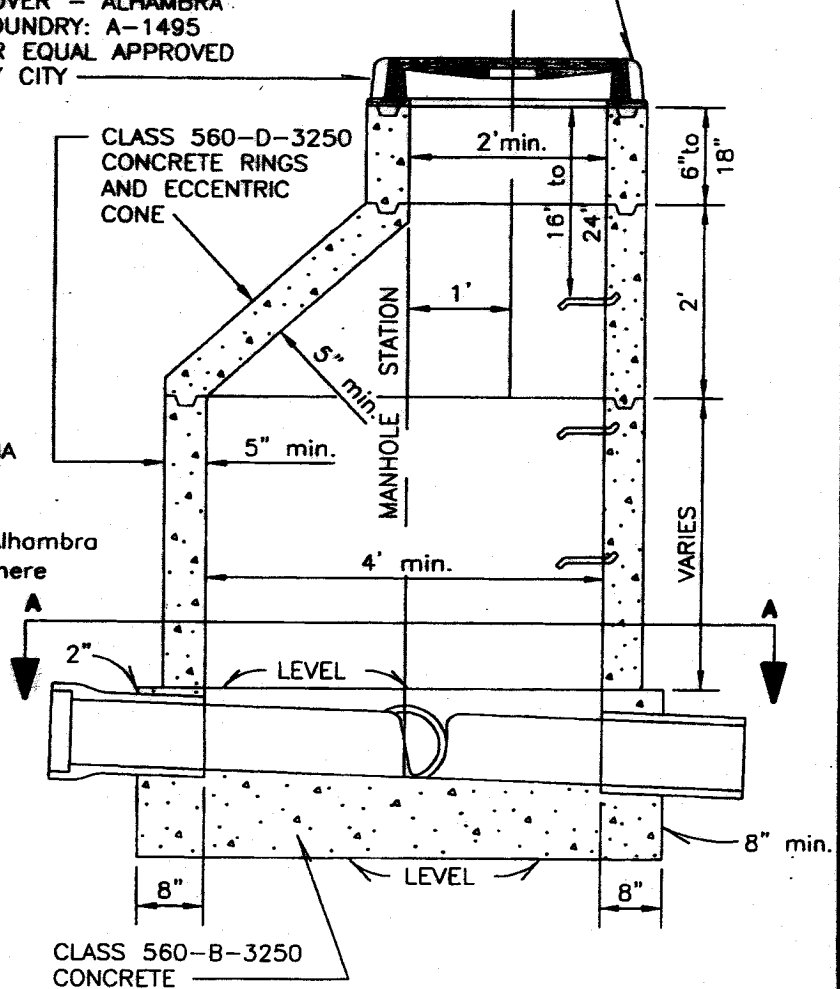
6. When manhole is in a street to be paved, manhole frame shall be set after adjacent pavement has been placed. Top shall be flush with pavement.

7. First pipe joint shall be no more than 1' from manhole.

8. At the contractor's option, thickness of manhole wall may be 4-1/8" provided Class 560-D-4000 concrete is used.

9. Cover shall have letter S in center.

SECTION A-A

MANHOLE FRAME AND COVER - ALHAMBRA FOUNDRY: A-1495 OR EQUAL APPROVED BY CITY

CEMENT IN PLACE WITH CLASS C MORTAR.

CLASS 560-D-3250 CONCRETE RINGS AND ECCENTRIC CONE

2' min.

6" to 18"

16' to 24'

MANHOLE STATION

5" min.

1'

2'

VARIES

5" min.

4' min.

2"

LEVEL

8" min.

8"

LEVEL

8"

CLASS 560-B-3250 CONCRETE

APPROVED _____ DATE 12/22/03
CITY ENGINEER - R.C.E. 36170

CITY OF RIVERSIDE
PUBLIC WORKS DEPT. - ENGINEERING DIV.

PRECAST CONCRETE SEWER MANHOLE

MARK	REVISION	APPR.	DATE

STANDARD DRAWING NO. 500